Owner's Manual
Havis Rugged Mobile Docking Station For Panasonic CF-19 Toughbook

DS-PAN-210 Series/220 Series

DS-PAN-211 DS-PAN-212 DS-PAN-213 DS-PAN-214 DS-PAN-221
DS-PAN-211-2 DS-PAN-212-2 DS-PAN-214-2 DS-PAN-221-2

HAVIS
Productivity in motion

www.havis.com
1-800-524-9900

Havis is pleased to provide this Owner's Manual to aid in the proper installation and use of the DS-PAN-210 Series/220 Series Docking Station for the Panasonic CF-19 laptop computer.

For questions regarding the set-up of your DS-PAN-210 Series/220 Series Docking Station, please contact Havis at 1-800-524-9900 or visit www.havis.com for additional product support and information.

This Owner's Manual applies to the following Part Numbers:

DS-PAN-211 DS-PAN-212 DS-PAN-213 DS-PAN-214 DS-PAN-221
DS-PAN-211-2 DS-PAN-212-2 DS-PAN-214-2 DS-PAN-221-2

⚠WARNING

- **NEVER STOW OR MOUNT THE DOCKING STATION DIRECTLY IN A VEHICLE AIRBAG DEPLOYMENT ZONE.**
- **DO NOT USE COMPUTER WHILE DRIVING.**

⚠CAUTION

- **READ ALL INSTRUCTIONS THOROUGHLY BEFORE BEGINNING INSTALLATION.**
- **DO NOT MATE COMPUTER TO DOCKING STATION UNLESS COMPUTER'S DOCKING CONNECTOR ACCESS DOOR IS FULLY OPEN OR DAMAGE MAY RESULT.**

NOTICE

- **FOR PROPER SYSTEM FUNCTION, SPECIFIC DOCKING STATION MODELS MUST BE USED WITH SPECIFIC CF-19 MARK LEVEL COMPUTER MODELS.**
  (PLEASE VISIT WWW.HAVIS.COM/CF19 FOR CURRENT COMPATIBILITY INFORMATION)

COMPUTER MARK LEVEL	DOCKING STATION	IDENTIFICATION
MARK 4 & HIGHER	**DS-PAN-210 SERIES** • DS-PAN-211 • DS-PAN-211-2 • DS-PAN-212 • DS-PAN-212-2 • DS-PAN-214 • DS-PAN-214-2	'NOTICE' in upper left corner
ALL MARK LEVELS	**DS-PAN-220 SERIES** • DS-PAN-221 • DS-PAN-221-2	LABEL in upper left corner

Table of Contents

Specifications 3
Parts Included 4
Port Replication Capability 4
Installation 5
Cable Management 6
Operation - Docking 8
Operation - Undocking 9

Precautions

- Do not place metal objects or containers of liquid on top of the Docking Station
- If a malfunction occurs, immediately unplug the Power Supply and remove the laptop
- Use only the specified Power Supply with this Docking Station (Recommended Part # LPS-101)
- Do not store the Docking Station where water, moisture, steam, dust, etc. are present
- Do not connect cables into ports other than what they are specified for
- Do not leave the Docking Station in a high temperature environment (greater than 60°C, 140°F) for a long period of time

Specifications

Power Supply Input	15.6V DC-In
Dimensions*	10.9" (27.7 cm) W x 11.1" (28.1 cm) D x 3.25" (8.2 cm) H
Weight*	3.8 lbs (1.7 kg)
Operating Environment	5° C to 35° C (41° F to 95°F)
Storage Environment	-20° C to 60° C (-4° F to 140° F)

* DS-PAN-211

DECLARATION OF CONFORMITY FOR CE MARKING

Havis, Inc. declares that their DS-PAN-210 SERIES/DS-PAN-220 DOCKING STATIONS:
Are classified within the following EU Directives:
EU Electromagnetic Compatibility Directive 2004/108/EC

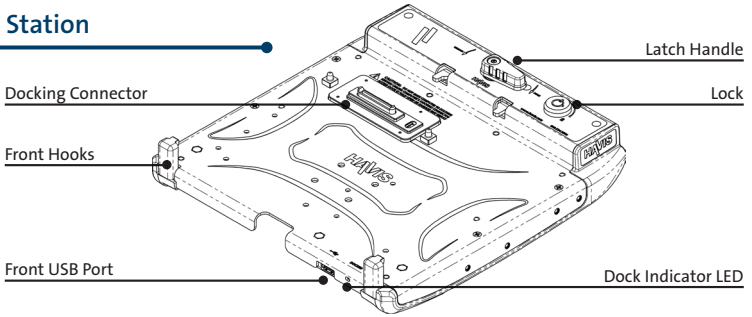
And further conform with the following EU Harmonized Standards:
EN 55022 (2006) + A1 2007, EN 55024 (1998) + A2: 2003
EN 50498: 2010
Clause 7.1 Broadband Radiated Disturbances - Quasi-Peak
Clause 7.2 Narrowband Radiated Disturbances - Average
Clause 7.3 Conducted Radiated Disturbances - Severity Level 2

Dated: August 19, 2010
Position of signatory: Chief Information Officer / Chief Financial Officer
Name of signatory: Steve Ferraro

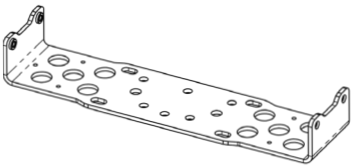
Signed:

Parts Included

Docking Station



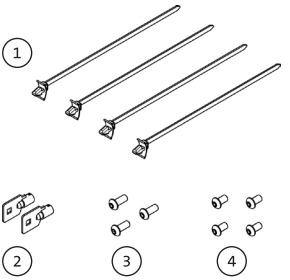
Mounting Bracket



Hardware Kit

This Hardware Kit includes:

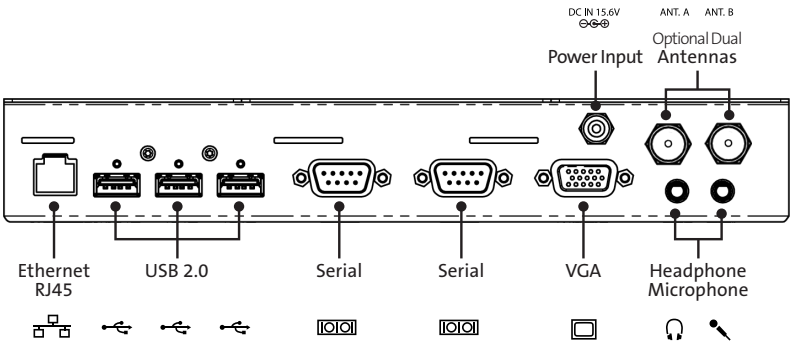
1. Zip Ties (4)
2. Keys (2)
3. 1/4”-20 x 5/8” long Button Head Screws (3)
4. 1/4”-20 x 3/8” long Pan Head Screws (4)



Tools required for installation:

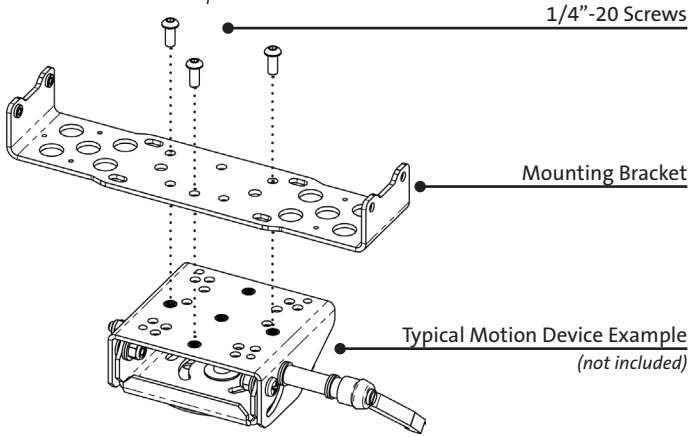
- #3 Phillips Drive
  (For attaching Mounting Bracket to Docking Station with Pan Head 1/4”-20 Screws)
- 5/32” Hex Drive
  (For attaching Mounting Bracket to Motion Device with Button Head 1/4”-20 Screws)

Port Replication Capability



1) Remove the Mounting Bracket from the Docking Station. Install the Mounting Bracket to the Motion Device using (3) 1/4"-20 x 5/8" long screws (Hardware Kit Item 3). Torque screws to 120 in-lbs (13.4Nm) ± 10%.

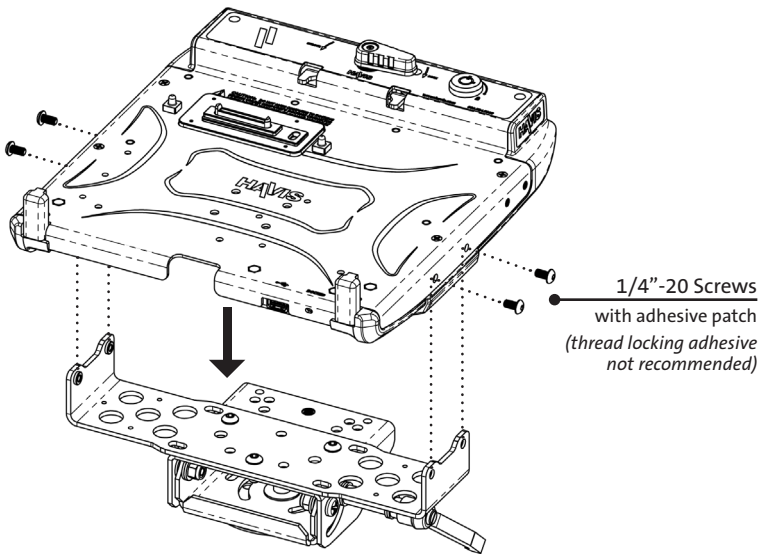
NOTE: Numerous hole patterns present in Mounting Bracket will accomodate Havis Motion Devices as well as most competitors'.



NOTE: We recommend applying a drop of medium strength (blue) thread locking adhesive to the threads of all fasteners.

2) Lower the Docking Station to the Mounting Bracket as shown and secure with (4) 1/4"-20 x 3/8" long screws (Hardware Kit Item 4). Torque screws to 120 in-lbs (13.4 Nm) ± 10%.

NOTE: If mounting Power Supply to Docking Station, go to Page 10 before completing Step 2.



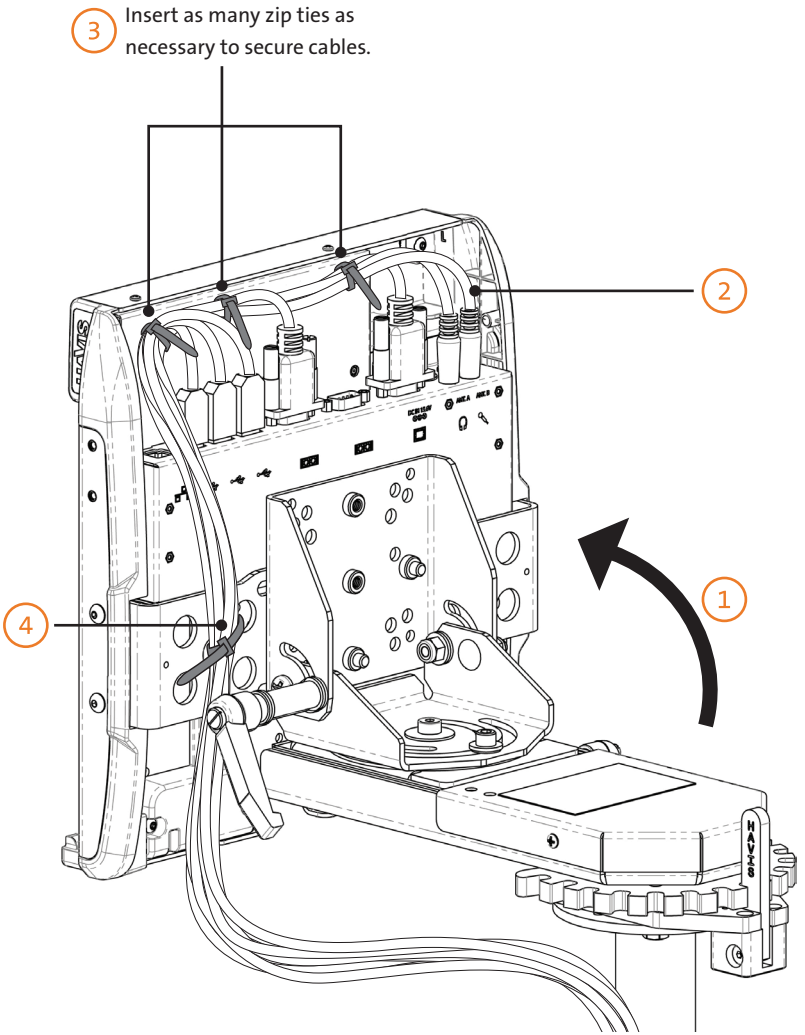
Cable Management

1) Tip the Docking Station to a position that is comfortable to work with.

2) Install all cables that are necessary for computing needs.

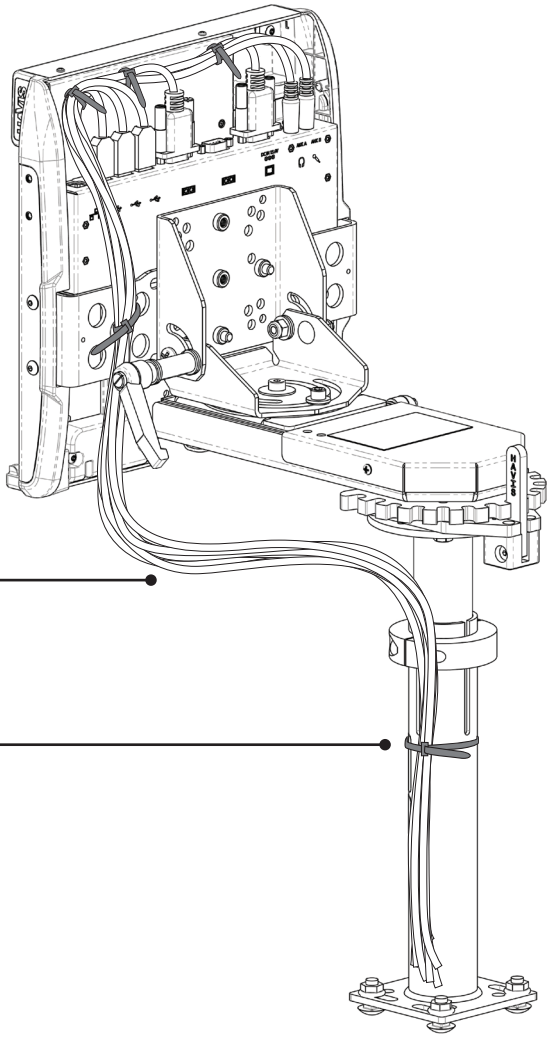
3) Use Zip Ties (Hardware Kit Item 1) to strain relieve cables at rear of Docking Station.

4) Gather all cables to one side and tie off to unused holes on underside of Docking Station.



5) Create a service loop with cables to ensure that no tension is on the connectors and to enable intended motion.

6) Tie off cables onto a stationary part of the mounting system.



5

This loop must be large enough to allow full range of expected rotation and extension without stressing connections.

6

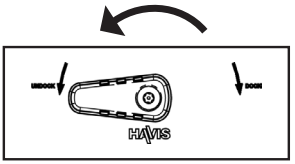
Collect cables and secure to the mounting system.

(Note: mounting system not included)

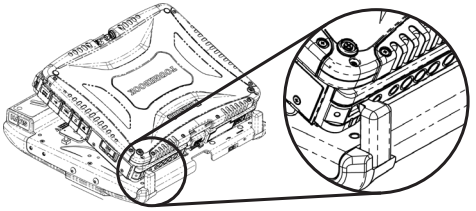
⚠CAUTION

- **DO NOT MATE COMPUTER TO DOCKING STATION UNLESS COMPUTER'S DOCKING CONNECTOR ACCESS DOOR IS FULLY OPEN OR DAMAGE MAY RESULT.**
- **DO NOT FORCE LAPTOP ONTO DOCKING STATION. IF THERE IS RESISTANCE, CHECK ALIGNMENT OF COMPUTER ON DOCKING STATION.**

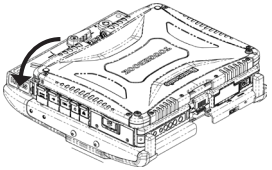
1) Ensure Docking Station is unlatched by positioning the Latch Handle to the "UNDOCK" position.



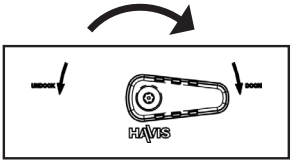
2) With rear of computer elevated, load front of computer into Docking Station by aligning Front Hooks with the appropriate recesses in the computer case.



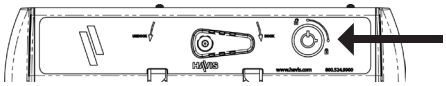
3) Lower back of computer onto Docking Connector.



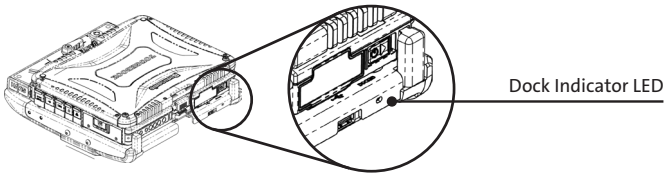
4) With computer seated on Docking Station, rotate Latch Handle clockwise to the "DOCK" position.



5) For theft deterrence, secure computer by locking Docking Station with supplied key (Hardware Kit Item 2).



6) Power on computer. The Dock Indicator LED will light up green to indicate proper system function.

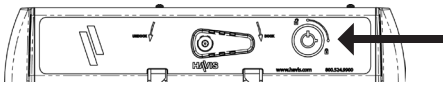


DOCK INDICATOR LED DIAGNOSTICS:

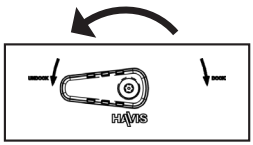
GREEN: Computer docked, all ports ready for use.
ORANGE: USB and LAN ports are not functioning.
RED: Computer is not supported or a connection is not made.
RED (Blinking): Firmware error has occurred.
NOT LIT: Computer is not installed, is turned off, or in standby or sleep mode.

Operation - Undocking

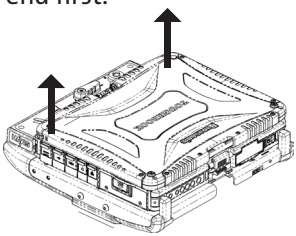
1) If previously locked, unlock Docking Station using supplied key.



2) Rotate Latch Handle counter-clockwise to the "UNDOCK" position.

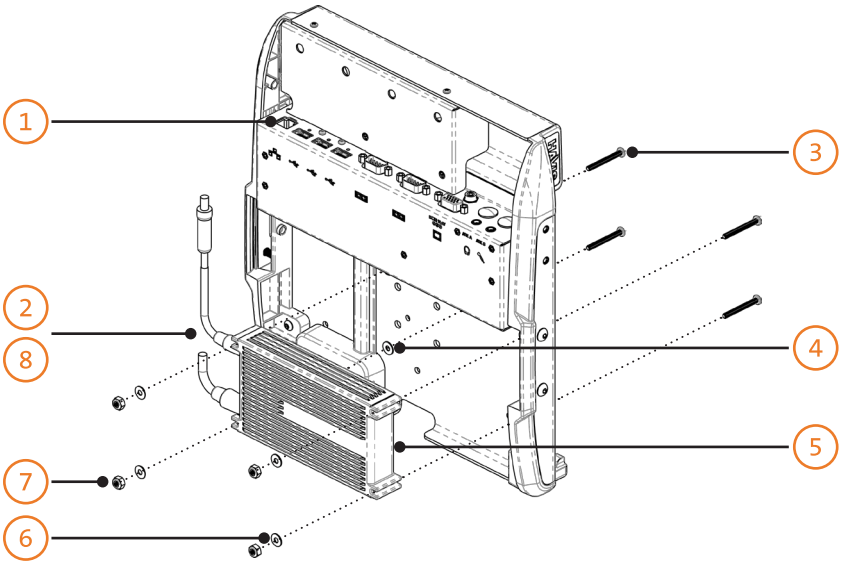


3) Once unlatched grab both sides of computer and carefully lift out of Docking Station, rear end first.



Installation of Power Supply *(LPS-101 - Optional)*

1) Power off computer and ensure all cables are disconnected from computer.
2) Plug in both input and output cables (supplied with LPS-101) into the Power Supply brick.
3) With the Docking Station right side up, drop (4) #6-32 screws (supplied with LPS-101) through the holes in Docking Station.
4) While supporting the (4) #6-32 screws, flip the Docking Station upside down and place (1) flat washer over each of the (4) #6-32 screws (4 places).
5) Place the Power Supply brick over the (4) #6-32 screws ensuring that the screws pass through all of the bosses on the Power Supply brick and the cables are pointing in the direction shown.
6) Place the remaining (4) flat washers over each of the #6-32 screws and hand start a #6-32 locking nut onto each of the screws.
7) Torque all (4) #6-32 locking nuts to 8.0 in-lbs (0.9 Nm) ±10% ensuring that the #6-32 screws stayed properly aligned with the bosses of the Power Supply brick.
8) Route the Power Supply output cable as shown and secure connector to power input port on Docking Station.
9) Return to Installation Step #2 on Page 5.

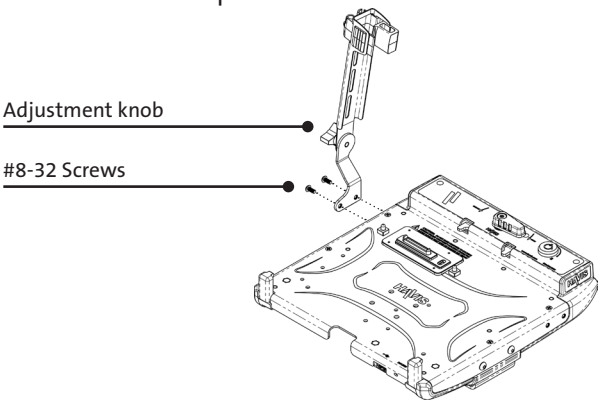


Installation of Screen Stiffener *(DS-DA-405 - Optional)*

1) Align holes in Screen Stiffener bracket with the mounting holes on the left side of Docking Station.

2) Insert the (2) #8-32 Screws and torque to 16.0in-lbs (1.8Nm) ± 10%.

3) Loosen Adjustment Knob to set the desired position of the LCD and tighten Adjustment Knob to secure position.



Installation of USB Laptop Lighting *(DS-DA-101 - Optional)*

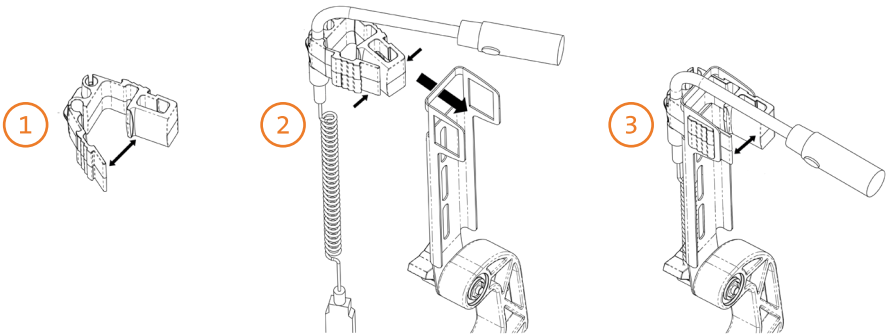
NOTE: A Screen Stiffener (DS-DA-405) is required to install Laptop Lighting (DS-DA-101) to Docking Station.

1) Remove Screen Stiffener Clip from Upper Bracket and spread open tabs to allow insertion of USB Laptop Light cable into accessory retaining hole.

2) Snap USB Powered Light into Screen Stiffener Clip so that top surface of Bulb is flush with bottom surface of Clip and insert assembly into Upper Bracket.

3) Work tabs outward so that retaining features on both sides of Clip fit through positioning window on the Screen Stiffener Upper Bracket.

4) Plug the Laptop Lighting USB connector into one of the USB ports in your computer or Docking Station.



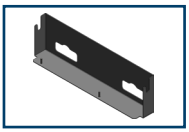
Related Products

Havis offers a wide variety of accessory products specifically for use with the DS-PAN-210 Series and DS-PAN-220 Series Docking Station. For more information or to order please visit www.havis.com.

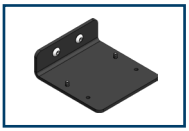
DS-DA-405
Screen Stiffener
Secure your laptop screen to prevent excess wear and reduce vibration while in use.

LPS-101
90W Power Supply
External power supply and cable for Panasonic CF-19 Toughbooks with cigarette lighter adaptor.

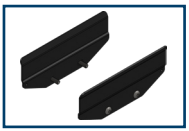
DS-DA-102
USB Powered Light
Soft red LED light illuminates the laptop keyboard for night viewing.



DS-DA-210
Cable Cover Bracket
Protect cable connections at rear of Docking Station.



DS-DA-213
Card Reader Mounting Bracket
Mount an E-Seek Model 250 card reader to the side of the Docking Station.
(Bracket can be customized for other Card Reader Models)



DS-DA-214
Side Cover Brackets
Strong steel and tamper-proof screws provide additional security to prevent hard drive theft.

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